

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### **Listing of Claims:**

1. (Currently Amended) A system for assisting a diabetic subject in controlling blood glucose levels, the system comprising:

- a. an insulin delivery unit;
- b. a blood glucose monitor;
- c. a master module that includes a processor that is configured to receive a blood glucose value from the blood glucose monitor and to run a model that predicts a future glucose value and compares that value with a target value and then predict a dose of insulin that will result in an acceptable blood glucose level[[:]] and transmit the predicted
- ~~d. wherein the dose of insulin is transmitted~~ to the insulin delivery unit.

2. (Original) The system of claim 1, wherein the processor is configured to receive other data from the subject.

3. (Original) The system of claim 2 wherein the data includes information on size and type of meal to be ingested and anticipated duration and intensity of exercise.

4. – 8. (Canceled)

9. (Previously Presented) A system for providing glycemic control to a subject, the system comprising:

- an insulin delivery unit,
- a glucose sensor,
- a control unit including a processor unit that receives glucose value readings from the glucose sensor, executes an algorithm that predicts a glucose value at a pre-determined time

in the future, compares that predicted glucose value to a pre-determined glucose value range, and determines a corrective amount of insulin to be administered when the predictive glucose value lies outside of the pre-determined glucose value range and a communication unit that transmits the corrective amount to the delivery unit.